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APPLICATION NO.	NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/510,938	02/22/2000		Paul S Murray	1004-4085	2969
32658	7590	06/09/2003			
HOGAN &			EXAMINER		
ONE TABOI 1200 SEVEN	TEEN ST.	SUITE 1500	DESTA, ELIAS		
DENVER, CO 80202				ART UNIT	PAPER NUMBER
				2857	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	09/510,938	MURRAY ET AL.					
i	Examiner	Art Unit					
	Elias Desta	2857					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri d for Reply							
A SHORTENED STATUTORY PERIOD FOR IT THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat. - If the period for reply specified above is less than thirty (30) days. - If NO period for reply is specified above, the maximum statutory. - Failure to reply within the set or extended period for reply will, b. - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	ION. CFR 1.136(a). In no event, however, may a ion. s, a reply within the statutory minimum of th period will apply and will expire SIX (6) MO a statute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed o	n <u>24 March 2003</u> .						
2a)⊠ This action is FINAL . 2b)[This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-18</u> is/are pending in the appli	cation.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-18</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Exa							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyanceSee 37 CFR-1.85(a).							
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Pri rity under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for 	al Bureau (PCT Rule 17.2(a)).	· ·					
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign langua 15)☐ Acknowledgment is made of a claim for do							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449) Paper N	18) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Of	fice Action Summary	Part of Paper No. 10					

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Response to Applicant's Amendment

Explanation of rejection

Claim rejection – 35 U.S.C. 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. <u>Claims 1-6 and 8-18</u> are rejected under 35 U.S.C. 102(b) as anticipated by <u>Barringer</u>.
 <u>In reference to claim 1</u>: <u>Barringer</u> teaches a method of characterizing a system (see
 <u>Barringer</u>, page 2, paragraph 2). The method includes:
 - Logging an outage of a system (see <u>Barringer</u>, Table 1: Raw Data from Operating logs);
 - Measuring an index associated with each outage, where the index is selected from business impact of the outage (see <u>Barringer</u>, page 2, effectiveness or <u>Figure</u> of <u>Merit</u> equation, consists of availability, reliability and maintainability factors); and
 - Calculating a <u>Figure of Merit</u> (FOM) based on the contributions of each outage weighted (values fall between 0 and 1, see page 2, last paragraph) in accordance with the associated indicia (see <u>Barringer</u>, page 2, abstract or paragraph 1, and pages 4-7).

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With regard to claim 2: as noted above in claim 1, <u>Barringer</u> further shows that the <u>Figure</u> of Merit (FOM) includes business impact weighted availability, reliability or maintainability measures (see <u>Barringer</u>, pages 4-7).

With regard to claim 3: as noted above in claim 1, <u>Barringer</u> further shows that the FOM includes business impact or weighted server panic index (see <u>Barringer</u>, page 6, paragraph 3 and Figure 1).

With regard to claim 4: as noted above in claim 1, <u>Barringer</u> further shows that the outage logging is performed on system wide basis (see <u>Barringer</u>, page 4, 3rd paragraph from the bottom and page 3, Table 1).

With regard to claim 5: as noted above in claim 1, <u>Barringer</u> further shows that the outage logging is performed for individual subsystems, services and functionality of the characterized system (see <u>Barringer</u>, Table 1, and page 3, paragraphs 3-5).

With regard to claim 6: as noted above in claim 1, <u>Barringer</u> further shows that the outage logging encodes a level of performance degradation (see <u>Barringer</u>, page 6, paragraphs 3 and 4).

With regard to claim 8: as noted above in claim 1, <u>Barringer</u> further shows that using FOM as a factor in an employee compensation scheme because Fig. 2, Probability Plot of Maintenance Down Time, shows that there is an inherent relationship between employee compensation and Elapsed Time For Maintenance action.

With regard to claim 9: as noted above in claim 1, <u>Barringer</u> further shows that the method includes evaluating a service level commitment using the FOM (see <u>Barringer</u>, Figure 3, effectiveness equates FOM).

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With regard to claim 10: as noted above in claim 1, <u>Barringer</u> further shows that the method includes calculating life cycle cost (see <u>Barringer</u>, Figure 3, LCC value), hence the low value of LCC can be interpreted as an incentive fee or cost.

With regard to claim 11: as noted above in claim 1, <u>Barringer</u> further shows that the method is characterized as information system (see <u>Barringer</u>, page 9, paragraph 6, and Fig. 3).

In reference to claim 12: Barringer teaches a computer program product encoded in one or more computer readable media (see <u>Barringer</u>, page 8, paragraph 4 to page 9, paragraph 1). The program is not explicitly described, but it is inherent that the program would run to compute all the required algorithms (see <u>Barringer</u>, page 9, paragraph 1, lines 1-3). Therefore, the software includes:

- Instruction to obtain event data (see <u>Barringer</u>, Table 1);
- Instructions executable to associate elements of the event data with business impact (see <u>Barringer</u>, page 9, Fig. 3);
- ➤ Instructions executable to calculate a <u>Figure of Merit</u> (FOM) including contributions for each event data element weighted (between 0-1) based on the associated business impacts (LCC value) (see <u>Barringer</u>, pages 4-9, and Fig. 3).

With regard to claim 13: as noted above in claim 12, <u>Barringer</u> further shows that the event data includes one or more of outages (availability), service interruptions (reliability), and performance degradation (maintainability) of the monitored systems and individual subsystems (see <u>Barringer</u>, pages 4-9).

With regard to claim 14: as noted above in claim 12, <u>Barringer</u> further shows that the computer program product encoded in a computer (see <u>Barringer</u>, page 8, paragraph 4 to page

9, paragraph 1). It is also known in the art that a computer at least would have some sort of a recordable or readable media to run and compute data.

<u>In reference to claim 15</u>: <u>Barringer</u> teaches a monitoring system (see <u>Barringer</u>, page 2, paragraphs 1 and 2). The system includes:

- An interface to event data for monitored subsystems (see <u>Barringer</u>, page 3,
 Table 1);
- Means for associating elements of the event data with business impacts (see Barringer, page 9, Fig. 3);
- Means for calculating <u>Figure of Merit</u> (FOM or effectiveness) including contributions for the event data weighted (values range from 0-1) in accordance with the associated business impacts (see <u>Barringer</u>, page 9, Fig. 3, effectiveness, and LCC).

With regard to claim 16: as noted above in claim 15, Barringer further shows that the Figure of Merit further includes:

Instructions executable on the monitoring system to weight contributions to an availability, reliability or maintainability index in accordance with the associated business impact of each event on the monitored subsystems (see <u>Barringer</u>, pages 4-9, and Fig. 3).

With regard to claim 17: as noted above in claim 15, Barringer further shows that the event data include incidence and duration of server panics (see Barringer, page 6, paragraph 3), and the means for calculating a Figure of Merit (FOM) (see Barringer, page 2, effectiveness (FOM) equation and page 9, Fig. 3, effectiveness). The Figure of Merit includes instructions

executable on the monitoring system to weight (0-1) contribution of each life cycle cost or considered as some sort of panic index.

With regard to claim 18: as noted above in claim 15, <u>Barringer</u> further includes four parameter values (availability, reliability, maintainability, and capability) used as a state tracking tools executable on the monitored systems to supply the event data (see <u>Barringer</u>, pages 4-9, and Fig. 3).

Claim rejection - 35 U.S.C. 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. <u>Claim 7</u> is rejected under 35 U.S.C. 103(a) as being unpatentable over <u>Barringer</u> in view of <u>Colby</u>.

<u>In reference to claim 7</u>: as noted above in claim 1, <u>Barringer</u> teaches a method of characterizing a system. However, the method does not teach remote monitoring of outages.

<u>Colby</u> teaches a software improvement that will increase the chance of success by computing and displaying in "real time" a <u>Figure of Merit</u> (see <u>Colby</u>, page 3, software, 1st list). Fig. 1 shows a schematic of the fine timing setting and read back electronics with a remote coarse phase reader for <u>LEAP</u> (Laser Electron Acceleration Project) experiment.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the method of characterizing a system by computing <u>Figure</u> of <u>Merit</u> as taught by <u>Barringer</u> and incorporate a remote monitoring system (the LEAP

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project) as disclosed in <u>Colby</u> in order to provide a remote monitoring feature, because remote accessing method would allow the user to collect and monitor the phase difference or system outage index and perform the <u>Figure of Merit</u> calculation with better source allocation and efficiency.

Response to argument

5. The Examiner disagrees with the assertion that the applicant's claims are distinguishable from <u>Barringer</u>.

In reference to claim 1: as discussed in <u>Barringer</u>, pages 2 to 3, an effectiveness equation is a Figure of Merit, which is helpful in deciding performance measures. Further, each elements of the effectiveness equation requires a firm datum which changes with name plate ratings for a true value that lies between 0 and 1 (see <u>Barringer</u>, page 2, last two paragraphs). Therefore, the Figure of Merit, or 'effectiveness' is computed based on the contributions of each outage weighted based on associated additional indicia or elements.

With regard to claims 2-11: the Examiner still maintains that <u>Barringer</u> discloses an arrangement in which the business impact of an outage is measured. For instance, Table 1, in <u>Barringer</u> supports this assertion because the table shows that a time tracking method to record the plants' up and down time of a particular process and maintains the results in operating logs. The last paragraph in page 3 of <u>Barringer</u> shows that the data in table 1 provides the raw data for computing a Figure-of-Merit or 'effectiveness' value for a given process. Therefore, Applicant's assertion that <u>Barringer</u> neither disclose nor suggests a business impact index is not true.

With regard to claim 12: the Examiner still believes that the outage is an index fraction

of the availability factor because full availability has a value of one, and any fraction of that
value shows an outage or unavailable service. Further, the 'effectiveness' or Figure-of-Merit is a
function of availability reliability, maintainability and capability of a given plant, therefore, fig.

3 is well qualified to provide a basis for the argument.

With regard to claims 13-18: the method of computing the Figure-of-Merit or 'effectiveness' can be implemented or realized (as it is illustrated in Figure 3) for the purposes of providing a comparison among three selected plants; hence this illustration provides a means for an invent interface, association, and computing the respective values.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (703)-305-3840. The examiner can normally be reached on M-Thu (8:00-6:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (703)-308-1677. The fax phone numbers for the organization where this application or proceeding is assigned are (703)-308-5841 for regular communications and (703)-308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-1782.

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Elias Desta Examiner Art Unit 2857

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June 4, 2003

